

Kentucky Agricultural Statistics Service P.O. Box 1120 Louisville, Kentucky 40201-1120 (502) 582-5293 or 1-800-928-5277

KENTUCKY WEEKLY CROP & WEATHER REPORT



Prepared in Cooperation with:
Univ. of Ky - Agr'l Weather Center
U.S. Dept. of Commerce - NOAA
Kentucky Department of Agriculture
Cooperative Extension Service

Released weekly April - November

LELAND E. BROWN, Director

Issued 4:00 P.M., May 24, 2004

MLF 9-04

AGRICULTURAL NEWS: Farmers were anxious to get into their fields in between breaks in the wet weather. Temperatures for the period averaged 75 degrees, 7 degrees above normal and 5 degrees warmer than the previous week. Rainfall totaled 0.68 inches statewide, which was 0.38 inches above normal. Main farming activities included putting up hay, finishing corn planting, setting tobacco, and planting soybeans. Topsoil moisture, as of Friday, May 21, was rated 1 percent very short, 7 percent short, 72 percent adequate and 20 percent surplus. Subsoil moisture, was rated 2 percent very short, 9 percent short, 78 percent adequate, and 11 percent surplus. Days suitable for fieldwork averaged 3.8 out of a possible 7 days.

SMALL GRAINS: As of Friday, May 21, wheat condition was rated 2 percent poor, 18 percent fair, 56 percent good, and 24 percent excellent. Farmers began reporting grain lodging and damage due to the wet weather. The earliest date farmers expect wheat harvest to begin is June 17th. Harvest of the barley crop is expected to begin around May 29th.

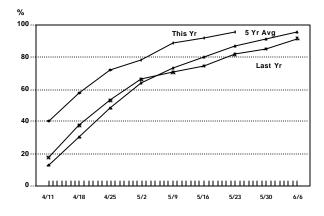
TOBACCO: Farmers were setting their burley and dark tobacco as soil conditions permitted. As of Sunday, May 23, burley tobacco set was 38 percent complete, 17 percent ahead of the previous year and 2 percent above average. Dark tobacco was 26 percent set, 3 percent ahead of the previous year but 14 percent behind average. Condition of

the set tobacco crop was 2 percent poor, 21 percent fair, 68 percent good, and 9 percent excellent.

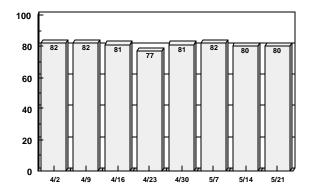
CORN AND SOYBEANS: Planting progress continued to be hampered last week by rainfall and wet field conditions. Many areas still need to be replanted. As of Sunday, May 23, farmers had planted 96 percent of their intended corn acreage, 14 percent ahead of last year, and 9 percent above average. Emerged corn reached 86 percent, ahead of the 73 percent last year and the five year average of 79 percent. Average emerged corn height was 11 inches with the most advanced fields 20 inches tall. As of Friday, the corn emerged condition rated 2 percent very poor, 5 percent poor, 21 percent fair, 48 percent good and 24 percent excellent. Soybeans were 35 percent planted, 21 percent ahead of last year, and equal to the five year average. Emerged soybeans were 28 percent, compared to 6 percent last year and a five year average of 22 percent.

OTHER CROPS: Hay was harvested as the weather permitted. There is still a lot left to be cut. Hay crop condition was 1 percent very poor, 2 percent poor, 20 percent fair, 55 percent good, and 22 percent excellent. Pasture condition was rated 1 percent very poor, 2 percent poor, 18 percent fair, 55 percent good, and 24 percent excellent. Grain sorghum was 40 percent planted, compared to 8 percent last year, and the five year average of 36 percent.

CORN PLANTING PROGRESS



WHEAT CONDITION % Good to Excellent



KENTUCKY CROP PROGRESS

WEEK ENDING MAY 23, 2004 WITH COMPARISONS

SOIL MOISTURE WEEK ENDING MAY 21, 2004 WITH COMPARISONS

Crop Stage	This	Previous	5-Yr.	Previous Week	
	Week	Year	Avg.	KY	U.S.
	Percentage				
Corn					
Planted	96	82	87	92	92
Emerged	86	73	79	80	63
Soybeans					
Planted	35	14	35	20	54
Emerged	28	6	22	6	19
Sorghum					
Planted	40	8	36	11	36
Burley Tobacco Set	38	21	36	19	NA
Dark Tobacco Set	26	23	40	15	NA
(NA) Data Not Available					

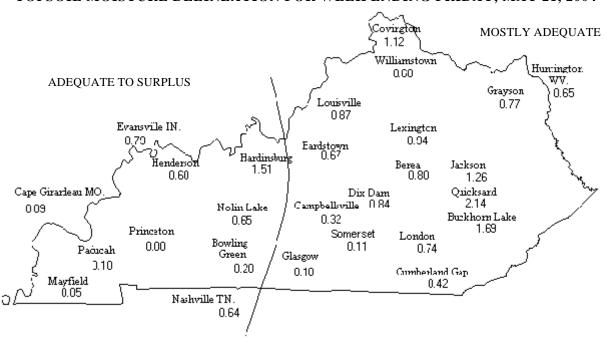
	This Week	Previous Week	
	Percentage		
TOPSOIL		_	
Very Short	1	2	
Short	7	14	
Adequate	72	64	
Surplus	20	20	
SUBSOIL			
Very Short	2	1	
Short	9	8	
Adequate	78	79	
Surplus	11	12	

(NA) Data Not Available.

KENTUCKY CROP CONDITIONS (Percent)

WEEK ENDING MAY 21, 2004				WEEK ENDING MAY 14, 2004						
CROP	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT
Corn Emerged	2	5	21	48	24	1	4	23	51	21
Wheat	0	2	18	56	24	0	3	17	53	27
Pasture	1	2	18	55	24	1	2	18	56	23
Hay Crops	1	2	20	55	22	1	3	21	54	21
Tobacco Set	0	2	21	68	9	0	2	16	70	12

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, MAY 23, 7:00 P.M. TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, MAY 21, 2004



KENTUCKY WEATHER SUMMARY, MAY 17 - 23, 2004:

ABOVE NORMAL TEMPERATURES AND BELOW NORMAL PRECIPITATION:

Most of the rain that fell this week occurred at the beginning of the week. Warm humid air and instability in the atmosphere allowed scattered thunderstorms to develop. Rainfall was locally heavy with some flooding occurring. Most of the storms were across the central and eastern Kentucky, leaving western areas dry for the week. By midweek a high pressure system moved in across the southeastern U.S. This kept most of the rain north of Kentucky. Highs all week were in the 80's, and lows were generally in the upper 60's and lower 70's. Dew point temperatures in the 60's and 70's kept conditions humid for the whole week.

Temperatures for the period averaged 75 degrees across the State which was 7 degrees above normal and 5 degrees warmer than the previous week. High temperatures averaged from 85 in the West to 83 in the East. Departure from normal high temperatures ranged from 3 degrees above normal in the West to 6 degrees above normal in the East. Lowtemperatures averaged from 67 degrees in the West to 63 degrees in the East. Departure from normal low temperature ranged from 10 degrees above normal in the West to 7 degrees above normal in the East. Extreme highs were in the upper 80's. Extreme lows were in the upper 50's.

Rainfall for the period totaled 0.68 inches statewide which was 0.38 inches below normal. Precipitation totals by climate division, West 0.27 inches, Central 0.67 inches, Bluegrass 0.81 inches and East 0.97 inches, which was 0.83, 0.44, 0.21 and 0.04 inches respectively below normal. By station, precipitation totals ranged from a low of 0.00 inches at Princeton to a high of 2.14 inches at Quicksand.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL

FOR WEEK ENDING SUNDAY, MAY 23, 7:00 P.M. Rainfall Deviation From Air Temperature Growing Degree Days Since Last Norm Norm Dev. Since Dev. Weather Last April Four Wkly. From Last Apr. Station Week Wks Apr. 1 4 Wks High Low Norm Week Apr. 1 Avg (Inches) (Degrees Fahrenheit) 4.24 +1.54 87 75.1 +7 173 +88 Bardstown 0.67 8.74 +0.2861 733 Berea 0.80 7.20 2.67 -0.63-1.61 86 64 75.4 +8 176 792 +124Bowling Green 0.20 9.86 4.75 +1.87+0.3687 61 76.2 +8 180 774 +106Bristol 2.31 -0.52-1.13 88 56 71.9 +5 150 682 +90 0.16 5.67 4.47 Buckhorn Lake 1.69 8.37 +1.57+0.8085 59 72.1 +5 153 708 +116Cape Girardeau 0.09 6.32 3.54 87 75.8 177 743 -1.96-1.0564 +6 +52Campbellsville 0.32 3.61 60 746 +7 171 774 8.66 +0.07-1.0387 +106+7 167 Covington 1.12 7.66 3.75 +0.73-0.0584 58 74.1 628 +66Cumberland Gap 0.42 7.56 3.52 -0.09 -0.73 87 59 72.9 +6 156 706 +114Dix Dam 0.84 7.42 3.30 -0.32-0.9286 63 75.4 +9 175 742 +97 0.79 4.19 -1.74 -0.00 89 59 76.1 179 773 Evansville 5.80 +6 +135Glasgow 0.10 11.30 4.63 +3.00+0.1289 60 76.2 +8175 847 +2392.27 +7 731 0.77 639 -0.40-1.50 87 58 743 168 +192Gravson 5.65 +7 170 757 Hardinsburg 1.51 10.11 +2.19+1.3287 56 74.7 +895.02 179 Henderson 0.60 7.65 +0.01+0.9387 62 75.7 +6 776 +108Huntington 0.65 6.11 1.76 -0.65-2.0088 56 74.5 +8 166 737 +145Jackson 1.26 6.73 3.40 -0.69-0.6184 61 72.4 +5 155 726 +13462 74.2 +7 0.94 7.39 3.75 +0.19-0.2184 168 682 +120Lexington London 0.74 7.51 4.23 +0.43+0.4286 59 72.6 +6 156 699 +107Louisville 0.878.96 4.43 +1.30+0.3087 61 75.7 +8 178 746 +1083.23 -2.52 171 733 Mavfield 0.05 6.25 -1.3386 61 74.6 +5 +12Nashville 0.64 12.01 5.46 +4.02+1.1164 75.6 +8 177 815 +94 Nolin Lake 0.65 10.23 4 92 +1.63+0.1087 59 75.6 +8 177 780 +135+7 3.40 186 Paducah 0.10 6.34 -2.34-1.1088 66 77.1 806 +115Princeton 0.00 8.10 3.83 -0.38-0.6588 65 76.4 +6 182 825 +127Quicksand 2.14 8.94 4.80 +1.52+0.7984 59 72.3 +5 155 722 +1300.11 6.22 3.04 -1.89 -1.45 86 60 72.5 +6 156 697 +52 Somerset 0.55 2.81 83 60 73.8 +7 165 5.84 -1.36-1.15 674 +112Spindletop

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (859)257-3000 ext 245. E-mail: priddy@uky.edu Additional Ky weather data available on Internet at: http://wwwagwx.ca.uky.edu/

-142

-1 68

85

60

744

+8

169

708

+146

2.28

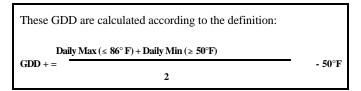
Williamstown

0.60

6.00

A GUIDE TO GROWING DEGREE DAYS

For the 2004 growing season, the Kentucky Agricultural Statistics Service in cooperation with the National Weather Service will provide weekly accumulated growing degree days (GDD) data.



Maximum temperatures above $86^{\circ}F$ are entered as 86° and minima below 50° are entered as 50° . This modification is designed to take into account the differing response of plants to quite high or quite low temperatures. There are several methods of calculating GDD, but the above formula is most widely accepted. This adjusted $50^{\circ}F$ method of calculating GDD has been adopted by the Hybrid Seed Corn Industry as a basis for a uniform maturity rating system.

At 50°F corn grows hardly at all. As the temperature rises up to the range of 80° to 86°F, corn grows faster if moisture is adequate. When the temperature rises above 86°F the roots have increasing difficulty taking in water fast enough to keep plant cells turgid (full of water) and working at top speed. When soil moisture is short, the optimum temperature is less than 80°F. With perfect moisture supply the optimum temperature is likely 90° to 95°F.

The concept of growing degree days is still under study and refinement. In its short existence growing degree days has proven to be a much better gauge for rating corn maturity than the old "days of maturity" rating. The use and importance of GDD will improve as information is collected over the years.

Corn Percent Planted

State	May 16 2004	Prev Week	Prev Year	5-Yr Avg
CO	79	47	62	69
IL	98	95	77	80
IN	93	87	60	70
IA	98	94	75	85
KS	95	84	87	88
KY	92	89	75	80
MI	65	60	38	59
MN	98	90	89	82
MO	96	95	78	79
NE.	95	85	68	81
NC	97	96	89	94
ND	83	73	65	56
OH	82	62	86	77
PA	67	54	51	61
SD	88	71	63	58
TN	98	95	89	94
TX	96	94	96	95
WI	69	56	56	64
ALL	92	84	73	77
These 18	States planted 9	2% of last year	's corn acreag	е.

Sovbean Percent Planted

	May 16	Prev	Prev	5-Yr			
State	2004	Week	Year	Avg.			
AR	47	38	34	32			
IL	57	33	18	40			
IN	66	48	24	46			
IA	76	51	15	39			
KS	31	16	22	31			
KY	20	15	10	21			
LA	60	54	38	52			
MI	33	22	10	29			
MN	72	47	35	40			
MS	93	89	77	72			
MO	39	29	16	27			
NE	51	25	17	32			
NC	21	13	15	19			
ND	41	27	16	19			
OH	54	28	46	53			
SD	36	15	13	19			
TN	17	12	8	17			
WI	22	13	17	29			
ALL	54	35	23	36			
These 18 S	These 18 States planted 96% of last year's soybean acreage.						

This release and others can be viewed on the Internet at http://www.nass.usda.gov/ky/ For a free E-Mail subscription of the Kentucky Weekly Crop & Weather report, on the Internet go to http://www.nass.usda.gov/sub-form.htm and follow the instructions.